

WE CLAIM:

1. A method for applying a protective coating to a wall of a freezer enclosure comprising the steps of:

applying a screen to the wall, the screen including a plurality of intersecting elements forming a plurality of openings;

applying one or more coatings of a polymer to the screen in a sufficient quantity to coat the screen and permeate the plurality of openings through to the wall;
and

solidifying the polymer.

2. The method of Claim 1 wherein the polymer comprises a polyurea coating.

3. The method of Claim 1 wherein the polyurea coating is a mixture of two compositions.

4. The method of Claim 3 wherein one of the two compositions forming the polyurea coating comprises:

between approximately 1% and 40% N,N¹ dialkylamino-diphenylmethane;

between approximately 1% and 50% diethyltoluenediamine;

between approximately 1% and 30% poly(oxy(methyl-1,2-ethanediyl)),
Alpha-(2-aminomethylmethylethyl) omega-(2-aminomethylmethylethoxy); and
between approximately 1% and 20% glyceryl poly(oxypropylene)
triamine.

5. The method of Claim 3 wherein one of the two compositions
forming the polyurea coating comprises:

between approximately 30% and 60% diphenylmethane diisocyanate;
between approximately 30% and 60% modified MDI; and
between approximately 1% and 10% MDI homopolymer.

6. The method of Claim 3 further comprising the step of:
mixing the two compositions under pressure.

7. The method of Claim 3 further comprising the step of:
applying the two compositions under pressure.

8. The method of Claim 1 further comprising:
applying the coating in ambient temperatures above freezing.

9. The method of Claim 1 further comprising the step of:
sodablasting the wall prior to application of the polymer.
10. A method for sealing a freezer enclosure comprising the steps of:
applying a screen to a wall of the freezer enclosure, the screen including
a plurality of intersecting elements forming a plurality of openings;
applying a two component polyurea coating to the screen in a sufficient
quantity to coat the screen and permeate the plurality of openings; and
curing the polyurea coating.
11. The method of Claim 10 further comprising the steps of:
mixing the two components of the polyurea coating under pressure;
spraying the two components of the polyurea coating onto the screen.
12. The method of Claim 11 further comprising the step of:
heating the two components of the polyurea coating prior to mixing.
13. The method of Claim 10 wherein the polyurea coating is cured
with heat.

14. The method of Claim 10 further comprising the step of:
sanitizing the cured polyurea coating with a controlled steam injection.

15. An apparatus for coating a freezer enclosure having steel walls comprising:
a screen positioned against the walls of the freezer enclosure, the screen having a plurality of intersecting elements forming a plurality of openings;
a cured polyurea coating on the screen and through the plurality of openings of the screen.

16. The apparatus of Claim 15 wherein the cured polyurea coating comprises:

a mixture of a first component and a second component, the first component including:
between approximately 1% and 40% N,N¹ dialkylamino-diphenylmethane;
between approximately 1% and 50% diethyltoluenediamine;
between approximately 1% and 30% poly(oxy(methyl-1,2-ethanediyl)), Alpha-(2-aminomethylethyl) omega-(2-aminomethylethoxy); and
between approximately 1% and 20% glyceryl poly(oxypropylene) triamine; and

the second component including:

between approximately 30% and 60% diphenylmethane diisocyanate;
between approximately 30% and 60% modified MDI; and
between approximately 1% and 10% MDI homopolymer.

17. The apparatus of Claim 15 further comprising:

a plurality of fasteners adhering the screen to the walls.

18. The apparatus of Claim 15 wherein the screen comprises a wire mesh.

19. The apparatus of Claim 15 wherein the screen comprises one of a composite and a metal netting.

20. A refrigeration device comprising:

a plurality of walls;
a screen positioned over at least one of the walls, the screen including a plurality of intersecting elements defining a plurality of openings; and
a polymer coating contacting the screen, and contacting the wall through the openings in the screen.